

4 of 4 197536

# SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 8/3/06 Serial # 10/807,417 Priority Application Date 3/23/04

Your Name M. Lewis Examiner # 73172

AU 2822 Phone 202-1838 Room 5A30

In what format would you like your results? Paper is the default. ☒ PAPER ☐ DISK ☐ EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other:

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐  
Secondary Refs ☐ Foreign Patents ☐ Other ☐

AUG 4 2006

Is this a "Fast & Focused Search" request? (Circle One) YES ☐ NO ☒

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patfr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-11, 20-23  
Sealed Circuit

Problem: See pages 1-7  
Solution: 11, 1, 2, 3

US 6,459,160 6,770,885  
2003/0061693 6,046,094

## Staff Use Only

Searcher: Paul Kim

Searcher Phone: 2-8949

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 8/11/06

Date Completed: 8/15/06

Searcher Prep/Rev Time: 4 hrs

Online Time: 4 hrs

## Type of Search

Structure (#) ☐

Bibliographic ☐

Litigation ☐

Fulltext ☐

Patent Family ☐

Other ☐

## Vendors

STN ☒

Dialog ☒

Questel/Orbit ☐

Lexis-Nexis ☒

WWW/Internet ☒

Other ☐

**SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800**

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 2/8/06 Serial # 10/807,417 Priority Application Date 3/23/04Your Name M. Harris Examiner # 73/72AU 2899 Phone 202-1835 Room 5A30In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: Need before 2/15

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐  
Secondary Refs ☐ Foreign Patents ☐ Other ☐Is this a "Fast & Focused Search" request? (Circle One) YES NOA "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-11  
Sealed Cavity  
Problem: See pages 1 & 2  
Solution: " " " 2 & 3  
Sealed cavity that provides  
a high level of protection  
against adverse environmental  
conditions.

## Staff Use Only

Searcher: M. MimsSearcher Phone: 25928Searcher Location: STIC-EIC2800, JEF-4B68Date Searcher Picked Up: 2/15/06Date Completed: 2/16/06Searcher Prep/Rev Time: 500Online Time: 43

## Type of Search

Structure (#) ☐Bibliographic ☒Litigation ☐Fulltext ☐Patent Family ☐Other ☐

## Vendors

STN ☒Dialog ☐Questel/Orbit ☐Lexis-Nexis ☐WWW/Internet ☐Other ☐

02/16/2006 10/807,417 Lewis

=> d his full

(FILE 'HOME' ENTERED AT 15:53:59 ON 15 FEB 2006)

FILE 'REGISTRY' ENTERED AT 15:54:23 ON 15 FEB 2006

L1 54289 SEA ABB=ON PLU=ON POLYIMIDE/PCT  
L2 10519 SEA ABB=ON PLU=ON FLUOROPOLYMER/PCT  
L3 1 SEA ABB=ON PLU=ON BENZOCYCLOBUTENE/CN  
L4 166 SEA ABB=ON PLU=ON BENZOCYCLOBUTENE  
L5 208 SEA ABB=ON PLU=ON AU/MF  
L6 20479 SEA ABB=ON PLU=ON AU/ELF  
L7 45549 SEA ABB=ON PLU=ON AU/ELS

FILE 'CAPLUS' ENTERED AT 15:57:31 ON 15 FEB 2006

L8 776129 SEA ABB=ON PLU=ON CAP OR CAPPED OR CAPPING OR TOP OR TOPPED  
OR TOPPING OR LID OR LID OR CERPAC OR CERPACK OR CERFLAT OR  
CERQUAD OR CAVIT?(2W)PACKA? OR DOME? OR DOMED OR HERMET?(2W) (S  
EAL OR CLOSURE OR CAVIT?) OR GASKET OR SIDEBRAZ? OR SIDE(W)BRAZ  
? OR COVER?  
L9 480298 SEA ABB=ON PLU=ON IC OR INTEGRATE?(W)CIRCUIT? OR CHIP OR  
MICROCHIP OR TRANSISTOR OR MEM OR RESONAT? OR WAFER OR DIE OR  
SEMICONDC?(2W) PACKAGE? OR CIRCUIT(3W) (ELEMENT OR DEVIC?)  
L10 17557 SEA ABB=ON PLU=ON CAULK? OR BOND?(2W) (AGENT OR SUBSTANCE OR  
RESIN OR MATERIAL)  
L11 118127 SEA ABB=ON PLU=ON L1 OR L2 OR L3 OR L4  
L12 451 SEA ABB=ON PLU=ON L8 AND L9 AND L11  
L13 451 SEA ABB=ON PLU=ON L11 AND L12  
L14 11 SEA ABB=ON PLU=ON L13 AND L10  
L15 63 SEA ABB=ON PLU=ON L13 AND L7  
L16 10 SEA ABB=ON PLU=ON L14 NOT L15  
D IBIB ABS HITSTR 1-10  
L17 62 SEA ABB=ON PLU=ON L15 NOT L14  
D IBIB ABS HITSTR 1-62

FILE 'INSPEC' ENTERED AT 16:07:24 ON 15 FEB 2006

L18 24676 SEA ABB=ON PLU=ON L8 AND L9  
L19 14197 SEA ABB=ON PLU=ON POLYIMIDE OR FLUOROPOLYME? OR TEFLON OR  
?BENZOCYCLOBUTE? OR POLYFLUOR? OR BCB  
L20 27186 SEA ABB=ON PLU=ON AU EL/CHI  
L21 26 SEA ABB=ON PLU=ON L18 AND L19 AND L20  
D IALL 1-26  
L22 7 SEA ABB=ON PLU=ON L18 AND L19 AND L10  
L23 7 SEA ABB=ON PLU=ON L22 NOT L21  
D IALL 1-7  
L24 360 SEA ABB=ON PLU=ON L18 AND L19  
L25 2808 SEA ABB=ON PLU=ON CAULK? OR (SEAL? OR BOND? OR ADHESIV? OR  
ADHER?) (2W) (AGENT OR SUBSTANCE OR RESIN OR MATERIAL)  
L26 9 SEA ABB=ON PLU=ON L24 AND L25  
L27 2 SEA ABB=ON PLU=ON L26 NOT L23  
D IALL 1-2  
L28 27437 SEA ABB=ON PLU=ON (CAP OR CAPPED OR CAPPING OR TOP OR TOPPED  
OR TOPPING OR LID OR LID OR CERPAC OR CERPACK OR CERFLAT OR  
CERQUAD OR CAVIT?(2W)PACKA? OR DOME? OR DOMED OR HERMET?(2W) (S  
EAL OR CLOSURE OR CAVIT?) OR GASKET OR SIDEBRAZ? OR SIDE(W)BRAZ  
? OR COVER?)/TI  
L29 20 SEA ABB=ON PLU=ON L24 AND L28  
L30 20 SEA ABB=ON PLU=ON L29 NOT (L21 OR L23 OR L27)

EIC 2800 MARY S. MIMS 272-5928

02/16/2006 10/807,417 Lewis

D IALL 1-20

FILE 'CAPLUS' ENTERED AT 16:22:49 ON 15 FEB 2006

L31 37 SEA ABB=ON PLU=ON L12 AND L28  
L32 33 SEA ABB=ON PLU=ON L31 NOT (L16 OR L17)  
D IBIB ABS HITSTR 1-33

FILE 'WPIX' ENTERED AT 16:26:51 ON 15 FEB 2006

L33 52713 SEA ABB=ON PLU=ON ?POLYIMIDE OR ?FLUOROPOLYME? OR ?TEFLON OR  
?BENZOCYCLOBUTE? OR POLYFLUOR? OR BCB  
L34 131730 SEA ABB=ON PLU=ON CAULK? OR (SEAL? OR BOND? OR ADHESIV? OR  
ADHER?) (2W) (AGENT OR SUBSTANCE OR RESIN OR MATERIAL)  
L35 977574 SEA ABB=ON PLU=ON IC OR INTEGRATE? (W) CIRCUIT? OR CHIP OR  
MICROCHIP OR TRANSISTOR OR MEM OR RESONAT? OR WAFER OR DIE OR  
SEMICONDUCT? (2W) PACKAGE? OR CIRCUIT (3W) (ELEMENT OR DEVIC?)  
L36 626656 SEA ABB=ON PLU=ON (CAP OR CAPPED OR CAPPING OR TOP OR TOPPED  
OR TOPPING OR LID OR LID OR CERDIP OR CERPACK OR CERFLAT OR  
CERQUAD OR CAVIT? (2W) PACKA? OR DOME? OR DOMED OR HERMET? (2W) (S  
EAL OR CLOSURE OR CAVIT?) OR GASKET OR SIDEBRAZ? OR SIDE(W) BRAZ  
? OR COVER?) /TI  
L37 32 SEA ABB=ON PLU=ON L33 AND L34 AND L35 AND L36  
D IALL 1-32  
L38 104322 SEA ABB=ON PLU=ON AU OR GOLD  
L39 57 SEA ABB=ON PLU=ON L33 AND L35 AND L36 AND L38  
L40 49 SEA ABB=ON PLU=ON L39 NOT L37  
D IALL 1-49

15aug06 09:07:25 User291227 Session D179.1

File 342:Derwent Patents Citation Indx 1978-05/200649  
(c)2006 The Thomson Corp.

S1 48 CT=(US 20030042424 OR WO 2003022017 OR AU 2002331668 OR  
US 20020090761 OR US 6459160 OR JP 11312948 OR US  
20030061693 OR JP 08330460 OR US 6046074 OR US 5744752)

SYSTEM:OS - DIALOG OneSearch

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)  
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200651  
(c) 2006 The Thomson Corporation

Set	Items	Description
S1	60	S1:S13
S2	11	S1 AND (CAVITY OR SPACE)
S3	17	S1 AND (HERMETIC????? OR SEAL????? OR CAULK?????)
S4	13	S3 NOT S2

15aug06 15:00:40 User291227 Session D182.5

File 342:Derwent Patents Citation Indx 1978-05/200649  
(c)2006 The Thomson Corp.

Set	Items	Description
---	-----	-----
S1	17	CT=(US 5821161)

SYSTEM:OS - DIALOG OneSearch

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)  
(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD=200651  
(c) 2006 The Thomson Corporation

Set	Items	Description
S1	24	S1:S4
S2	13	S1 AND (SEAL???? OR HERMETIC????? OR CAULK?????)

15aug06 14:11:37 User291227 Session D182.1

SYSTEM:OS - DIALOG OneSearch

File 23:CSA Technology Research Database 1963-2006/Jul  
(c) 2006 CSA.

File 2:INSPEC 1898-2006/Aug W1  
(c) 2006 Institution of Electrical Engineers

File 6:NTIS 1964-2006/Aug W1  
(c) 2006 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2006/Aug W1  
(c) 2006 Elsevier Eng. Info. Inc.

File 14:Mechanical and Transport Engineer Abstract 1966-2006/Jul  
(c) 2006 CSA.

File 25:Weldasearch 1966-2006/Jul  
(c) 2006 TWI Ltd

File 31:World Surface Coatings Abs 1976-2006/Sep  
(c) 2006 PRA Coat. Tech. Cen.

File 33:Aluminium Industry Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 34:SciSearch(R) Cited Ref Sci 1990-2006/Aug W1  
(c) 2006 The Thomson Corp

File 35:Dissertation Abs Online 1861-2006/Jun  
(c) 2006 ProQuest Info&Learning

File 36:MetalBase 1965-20060815  
(c) 2006 The Thomson Corporation

File 46:Corrosion Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 56:Computer and Information Systems Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 57:Electronics & Communications Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 60:ANTE: Abstracts in New Tech & Engineer 1966-2006/Jul  
(c) 2006 CSA.

File 61:Civil Engineering Abstracts. 1966-2006/Jul  
(c) 2006 CSA.

File 63:Transport Res(TRIS) 1970-2006/Jul  
(c) fmt only 2006 Dialog

File 64:Environmental Engineering Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 65:Inside Conferences 1993-2006/Aug 15  
(c) 2006 BLDSC all rts. reserv.

File 68:Solid State & Superconductivity Abstracts 1966-2006/Jul  
(c) 2006 CSA.

File 81:MIRA - Motor Industry Research 2001-2006/Jun  
(c) 2006 MIRA Ltd.

File 87:TULSA (Petroleum Abs) 1965-2006/Aug W1  
(c)2006 The University of Tulsa

**\*File 87: File 87 has been reloaded. Accession numbers have changed.**

File 94:JICST-EPlus 1985-2006/May W1  
(c)2006 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2006/Aug W2  
(c) 2006 FIZ TECHNIK

File 96:FLUIDEX 1972-2006/May  
(c) 2006 Elsevier B.V.

File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Jul  
(c) 2006 The HW Wilson Co.

File 103:Energy SciTec 1974-2006/Jun B2  
 (c) 2006 Contains copyrighted material  
**\*File 103: For access restrictions see Help Restrict.**  
 File 104:AeroBase 1999-2006/July  
 (c) 2006 Contains copyrighted material  
 File 118:ICONDA-Intl Construction 1976-2006/Jul  
 (c) 2006 Fraunhofer-IRB  
 File 134:Earthquake Engineering Abstracts 1966-2006/Jul  
 (c) 2006 CSA.  
 File 144:Pascal 1973-2006/Jul W4  
 (c) 2006 INIST/CNRS  
 File 239:Mathsci 1940-2006/Oct  
 (c) 2006 American Mathematical Society  
 File 240:PAPERCHEM 1967-2006/Aug W2  
 (c) 2006 Elsevier Eng. Info. Inc.  
 File 248:PIRA 1975-2006/Jul W4  
 (c) 2006 Pira International  
 File 293:Engineered Materials Abstracts 1966-2006/Jul  
 (c) 2006 CSA.  
 File 315:ChemEng & Biotec Abs 1970-2006/Jul  
 (c) 2006 DECHEMA  
 File 323:RAPRA Rubber & Plastics 1972-2006/Jul  
 (c) 2006 RAPRA Technology Ltd  
**\*File 323: Alert feature enhanced for multiple files, duplicate**  
**removal, customized scheduling. See HELP ALERT.**  
 File 335:Ceramic Abstracts/World Ceramics Abstracts 1966-2006/Jul  
 (c) 2006 CSA.  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

Set	Items	Description
S1	216141	CAULK???? OR SILICONE? ? OR RTV OR SEALANT? ? OR GASKET? ?
S2	1923	ROOM (W) (TEMPERATURE OR TEMP) (W) VULCAN?
S3	11419	(FLUID OR AIR OR GAS)()TIGHT????
S4	15606	AIRTIGHT????
S5	1003	(2ND OR ADDITION?? OR DOUBLE? ? OR REINFORC???) () SEAL????
S6	175	DUAL () SEAL????
S7	49303	(DOUBLE OR TWO OR DUAL OR ADDITIONAL OR BOTH) () (SIDE OR - SIDED)
S8	4894118	SEMICONDUCTOR? ? OR INTEGRATED () CIRCUIT?? OR IC OR SUBST- RATE? ? OR TRANSISTOR? ? OR WAFER? ?
S9	28338	GASKET? ?
S10	24	S5 AND S8
S11	15	RD (unique items)
S12	4472696	SEMICONDUCTOR? ? OR INTEGRATED () CIRCUIT?? OR IC OR DIE
S13	29214	S2:S6
S14	3149	S13 AND S1
S15	11	S14 AND S7
S16	50	ANOTHER () SEAL????
S17	50518	S16 OR S5:S7
S18	567	S17 AND (S1:S4 OR S9)
S19	21	S18 AND S12
S20	17	RD (unique items)
S21	16	S20 NOT S11
S22	4742110	CAVITY OR SPACE OR HOLLOW OR ENCLOSURE OR ENCAPSULAT????? - OR CLEARANCE
S23	4718	S22 AND S17
S24	40	S23 AND (S1:S4)



S25	30	RD (unique items)
S26	6521	S12 AND (HERMETIC????? OR CAULK?????)
S27	1524	S26 AND S22
S28	720	S27 AND SEMICONDUCTOR? ?
S29	348	S28 AND PACKAGING
S30	239	RD (unique items)
S31	4	S30 AND SEALANT? ?
S32	10	S30 AND (SIDEWALL? ? OR SIDE)
S33	1062	S1 (5N) (SIDEWALL? ? OR SIDE)
S34	26	S33 AND S12
S35	21	RD (unique items)

Set	Items	Description
S1	216141	CAULK????? OR SILICONE? ? OR RTV OR SEALANT? ? OR GASKET? ?
S2	32069	HERMETIC????? OR CAULK?????
S3	221897	CAP
S4	4894118	SEMICONDUCTOR? ? OR INTEGRATED ( ) CIRCUIT?? OR IC OR SUBST- RATE? ? OR TRANSISTOR? ? OR WAFER? ?
S5	6165	S2 AND S4
S6	175	S5 AND S3
S7	110	RD (unique items)
S8	36	S7 AND PY=1997:2004

Reconnected in file 2 15aug06 12:33:10

File 2:INSPEC 1898-2006/Aug W1  
(c) 2006 Institution of Electrical Engineers

Set	Items	Description
S1	25699	HERMETIC????? OR SEAL???? OR CAULK????
S2	1263256	DIE OR DICE OR SEMICONDUCTOR? ? OR INTEGRATED ( ) CIRCUIT? ? OR IC OR SUBSTRATE? ? OR TRANSISTOR? ? OR WAFER? ? OR CHIP? ? OR MODULE? ?
S3	5051	S1 AND S2
S4	636682	CAVITY OR SPACE OR HOLLOW OR ENCLOSURE OR ENCAPSULATION OR CLEARANCE
S5	930	S3 AND S4
S6	0	S5 AND CAULK????